ELSEVIER

Respiratory Physiology & Neurobiology 130 (2002) 337–338

RESPIRATORY PHYSIOLOGY & NEUROBIOLOGY

www.elsevier.com/locate/resphysiol

Contents of volume 130

No. 1, March 2002

Editorial 1

Frontiers review

J.A. Dempsey, A.W. Sheel, C.M. St. Croix and B.J. Morgan (USA, Canada) Respiratory influences on sympathetic vasomotor outflow in humans 3

Research articles

P.A. Daudu, A. Roy, C. Rozanov, A. Mokashi and S. Lahiri (USA) Extra- and intracellular free iron and the carotid body responses 21

U. Markstahler, E. Kremer, S. Kimmina, K. Becker and D.W. Richter (Germany, Israel) Effects of functional knock-out of α_1 glycine-receptors on breathing movements in *oscillator* mice 33

T.M. Menna and J.P. Mortola (Canada) Metabolic control of pulmonary ventilation in the developing chick embryo 43

C. Sanfaçon, É. Vérin, I. Marc and F. Sériès (Canada, France) Usefulness of phrenic nerve stimulation to measure upper airway collapsibility in normal awake subjects 57

S.C.M. Luijendijk and C.P.M. van der Grinten (The Netherlands) The ratio of the alveolar ventilations of SF_6 and He in patients with lung emphysema and in healthy subjects 69

C.-C. Lin, C.-F. Chang, S.-F. Liaw and C.-Y. Lin (Taiwan) Maximal forced expiratory maneuver to measure airway obstruction in allergen challenged mice 79

M. Hanaoka, R.-L. Ge, T. Kaneki, T. Koizumi, T. Kobayashi and K. Kubo (Japan) Effect of tacrolimus on endotoxin-induced lung injury in sheep 89

M. Ursino and E. Magosso (Italy) A theoretical analysis of the carotid body chemoreceptor response to O_2 and CO_2 pressure changes 99

List of Guest Referees for 2001 111

No. 2, April 2002

Research articles

S.K. Coles, R. Miller, J. Huela, P. Wolken and E. Schlenker (USA) Frequency responses to hypoxia and hypercapnia in carotid body-denervated conscious rats 113

C. Cream, A. Li and E. Nattie (USA) The retrotrapezoid nucleus (RTN): local cytoarchitecture and afferent connections 121

E. Nattie, A. Li, E. Meyerand and J.F. Dunn (USA) Ventral medulla pH_i measured in vivo by ^{31}P NMR is not regulated during hypercapnia in anesthetized rat 139

F.M. Paro, A.A. Steiner, P.M. De Paula and L.G.S. Branco (Brazil) Central heme oxygenase–carbon monoxide pathway in the control of breathing under normoxia and hypoxia 151

B.F. BuSha, R.J. Strobel and S.J. England (USA) The length–force relationship of the human genioglossus in patients with obstructive sleep apnea 161

J.J. Lu, W.W.Y. Cheung, L.M.Y. Yu, Z. Policova, D. Li, M.L. Hair and A.W. Neumann (Canada) The effect of dextran to restore the activity of pulmonary surfactant inhibited by albumin 169

PII: S0034-5687(02)00063-4

S. Patel (USA) Evaluation of the resistance of membrane and erythrocytes to oxygen transport in pulmonary capillaries 181
J. Steinberg, M. Gainnier, F. Michel, M. Faucher, C. Arnaud and Y. Jammes (France) The post-exercise oxidative stress is depressed by acetylsalicylic acid 189
R.K. Calay, J. Kurujareon and A.E. Holdø (UK) Numerical simulation of respiratory flow patterns within human lung 201

No. 3, June 2002

Frontiers review
S. Lahiri, C. Di Giulio and A. Roy (USA, Italy) Lessons from chronic intermittent and sustained hypoxia at high altitudes 223

Research articles
I.C. Solomon (USA) Modulation of expiratory motor output evoked by chemical activation of pre-Bötzinger complex in vivo 235
V. Joseph, J.M. Pequignot and O. Van Reeth (Belgium, France) Neurochemical perspectives on the control of breathing during sleep 253
G. Pete, S.O. Mack, M.A. Haxhiu, S. Walbaum and E.B. Gauda (USA) CO_2-induced c-Fos expression in brainstem preprotachykinin mRNA containing neurons 265
Y.M. Luo, N. Mustfa, R.A. Lyall, W.D.C. Man, J.C. Glérant, M.I. Polkey and J. Moxham (UK) Diaphragm compound muscle action potential measured with magnetic stimulation and chest wall surface electrodes 275
M.H. Stella, S.L. Knuth and D. Bartlett Jr (USA) Respiratory response to mechanical stimulation of the gallbladder 285
E. D'Angelo, M. Pecchiari, F. Acocella, A. Monaco and F. Bellemare (Italy, Canada) Effects of abdominal distension on breathing pattern and respiratory mechanics in rabbits 293
T. Fujie, N. Tojo, N. Inase, N. Nara, I. Homma and Y. Yoshizawa (Japan) Effect of chest wall vibration on dyspnea during exercise in chronic obstructive pulmonary disease 305
R.F.M. Gomes and J.H.T. Bates (Canada, USA) Geometric determinants of airway resistance in two isomorphic rodent species 317
B. Günther and E. Morgado (Chile) An invariant number of the respiratory system of mammals: newborn and adult 327

Author index of volume 130 333
Subject index of volume 130 335
Contents of volume 130 337